

Using GEMS Well to Understand the Data Available to You.

Robin Clausen
Research Liaison
Montana Office of Public Instruction
Assessment Conference 2018
February 9, 2018 – Billings, MT
February 13, 2018 - Helena, MT



What are researchers first two steps in a study?

- They come to research with a question, sometimes ill defined, that defines the scope of the investigation and what data is needed.
- It helps, as a second step, to understand the data available to you.
 - GEMS is a frequently used data source for district users and the general public.
 - School level and Student level data is provided to OPI by schools. GEMS provides that data back to schools in a way that helps you better understand the data available to you.
- To get secure access to student level data (district users), email Robin Clausen @ robin.clausen@mt.gov.
- If you already have secure access feel free to follow along on your laptop or tablet. <https://gems.opi.mt.gov>.



Q

CONTACT US

Early Warning System



We provide schools, policy makers, parents and the public with unprecedented access to data and reports regarding Montana's public education system. Here are some resources to help guide you through GEMS. Please visit our [Training Center](#) for a complete set of our helpful resources.



Password

To change your password click [Here](#)



Find a School or School System

go

Search for Schools or School Systems

Select City

Public & Non-Public

All Grades

5 mi

from zipcode:


go

School

System

Check boxes to compare schools

compare



Deadlines Calendar

No events scheduled at this time.

[View Full Calendar](#)

Putting Montana Students First **A+**

Login to Secure Site | contact us | data & information request

Free, certified, electronic transcripts are now available to high school students enrolled in participating schools.

<http://www.parchment.com/>

Find a School or School System

go

Search for Schools or School Systems

Livingston

Public & Non-Public

All Grades

5 mi

from zipcode:

go

Map of Livingston, MT area showing schools and highways.

bing

© 2017 Microsoft Corporation © 2017 HERE

Check boxes to compare schools

compare

3

Park High School

102 View Vista Drive,Livingston,MT,59047

(406) 222-0448

School Profile - Website

☐

4

Pine Creek 6-8

2575 East River Rd,Livingston,MT,59047

(406) 222-0059

School Profile - Website

☐

5

Pine Creek School

2575 East River Rd,Livingston,MT,59047

(406) 222-0059

School Profile

☐

6

Sleeping Giant Middle Sch

301 View Vista Dr,Livingston,MT,59047

(406) 222-3292

School Profile - Website

☐



Deadlines Calendar

No events scheduled at this time.

[View Full Calendar](#)

GEMS > Side-by-Side Comparison



Side-by-Side Comparison

Data Definitions & Explanations

You can compare any schools or districts throughout the entire state of Montana. To begin, just select a school or district from the dropdown list and click 'Add'. To remove any school or district, just click 'Remove'. To clear your list (i.e., start over) or return to the map tool, click on the appropriate link below:

Pine Creek 6-8
Livingston, MT
View Profile

Remove

Sleeping Giant Middle Sch
Livingston, MT
View Profile

Remove

Add a School/District Remove
items from list to switch between schools / districts

☒ School ☐ District

Add

[Clear Your List](#)

[Return to the Map](#)

CRT Assessment Status

School/District Characteristics

Program & Course Offerings

Financial

Information about School/District Programs and Courses

	<i>Pine Creek 7-8</i>	<i>Sleeping Giant Middle Sch</i>
Does this school offer a 4-day class week?	No	No
Is this school a middle school?	No	Yes
Does this school offer a 7-8 grade program?	Yes	No
List of grades offered by the school?	7 - 8	6 - 8



search our site



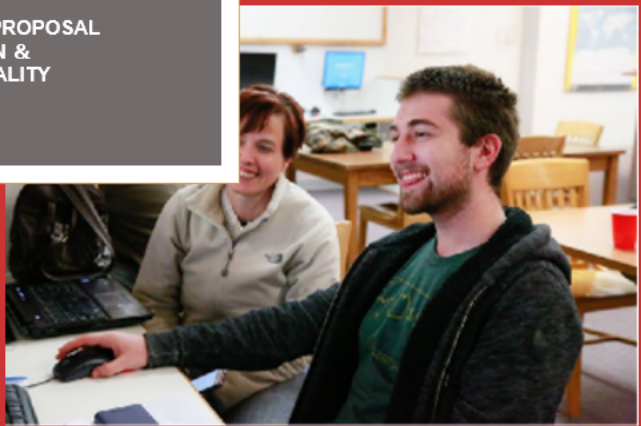
- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US

- CONTACT INFORMATION
- DATA & INFO REQUEST
- RESEARCH PROPOSAL APPLICATION & CONFIDENTIALITY

FAFSA Completion Report

The FAFSA Completion Report provides secure access to school counselors and other authorized school personnel to view the status of each high school senior's completion status on the Free Application for Federal Student Aid (FAFSA) in each school year.

[FAFSA Completion Report \(login required\)](#)



GEMS

Montana's Statewide Longitudinal Education Data System

Resources

We provide schools, policy makers, parents and the public with unprecedented access to data and reports regarding Montana's public education system. Here are some resources to help guide you through GEMS. Please visit our [Training Center](#) for a complete set of our helpful resources.



search our site



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US

- DATA DEFINITIONS & EXPLANATIONS
- USER MANUAL
- FAQ'S
- TRAINING DOCUMENTS

Early Warning System

The Montana EWS model uses readily available school, student, and other live data to identify students who are at risk are identified as early as 6th grade so that action may be taken by school officials.

Early Warning System



GEMS

Montana's Statewide Longitudinal Education Data System

Resources

We provide schools, policy makers, parents and the public with unprecedented access to data and reports regarding Montana's public education system. Here are some resources to help guide you through GEMS. Please visit our [Training Center](#) for a complete set of our helpful resources.



search our site



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US

- MAP OF MONTANA SCHOOLS
- SIDE-BY-SIDE COMPARISON
- SCHOOL DIRECTORY
- SCHOOL PROFILE
- SCHOOL DISTRICT PROFILE
- NON-PUBLIC SCHOOLS

Free Electronic Transcripts

As part of the OPI's K20 Data Project, the Montana e-Transcript Initiative establishes data linkages between...

[Free Electronic Transcripts](#)

...ary partners.



GEMS

Montana's Statewide Longitudinal Education Data System

Resources

We provide schools, policy makers, parents and the public with unprecedented access to data and reports regarding Montana's public education system. Here are some resources to help guide you through GEMS. Please visit our [Training Center](#) for a complete set of our helpful resources.



search our site



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US

GENERAL SCHOOL & DISTRICT INFORMATION	STUDENT SERVICES	STUDENT CHARACTERISTICS
PROGRAM & COURSE OFFERINGS	SCHOOL FINANCE	STUDENT ENGAGEMENT
STUDENT ACHIEVEMENT	SCHOOL STAFFING	COLLEGE READINESS

FAFSA Comple

The FAFSA Completion Report provides secure access to school counselors and other authorized school personnel to view the status of each high school senior's completion status on the Free Application for Federal Student Aid (FAFSA) in each school year.

[FAFSA Completion Report \(login required\)](#)



GEMS

Montana's Statewide Longitudinal Education Data System

...orting system provides access to multiple years of data and interactive reports on student achievement,

Resources

We provide schools, policy makers, parents and the public with unprecedented access to data and reports regarding Montana's public education system. Here are some resources to help guide you through GEMS. Please visit our [Training Center](#) for a complete set of our helpful resources.



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US



GEMS > *Student Achievement*



Student Achievement

Here you'll find a variety of information that measures Montana student achievement. This includes statewide annual assessment data, National Assessment of Education Progress (NAEP) scores, ACT scores, high school equivalency information and English language proficiency data.

Frequently-viewed reports include:

- Student Achievement Dashboard
- Statewide Assessment
- National Assessment of Educational Progress (NAEP)
- ACT Test Scores





search our site



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US



- Overview
 - Student Achievement Overview**
 - Student Achievement Dashboard
 - List of Quick Facts
- Accountability
- Statewide Assessment
 - Smarter Balanced Assessment Proficiency Levels
 - MontCAS (CRT) Proficiency Comparisons by Subgroup
 - MontCAS (CRT) Proficiency Trends
- National Assessment
- ACT
 - ACT Test Scores
 - ACT College Readiness

Student Achievement Overview

Student Achievement Overview is the primary tool that measures Montana student achievement. This includes statewide annual assessment scores, National Assessment of Educational Progress (NAEP) scores, ACT scores, high school equivalency information and English Language Proficiency (ELP) scores.





ACT Test Scores Dashboard

ACT Test Scores

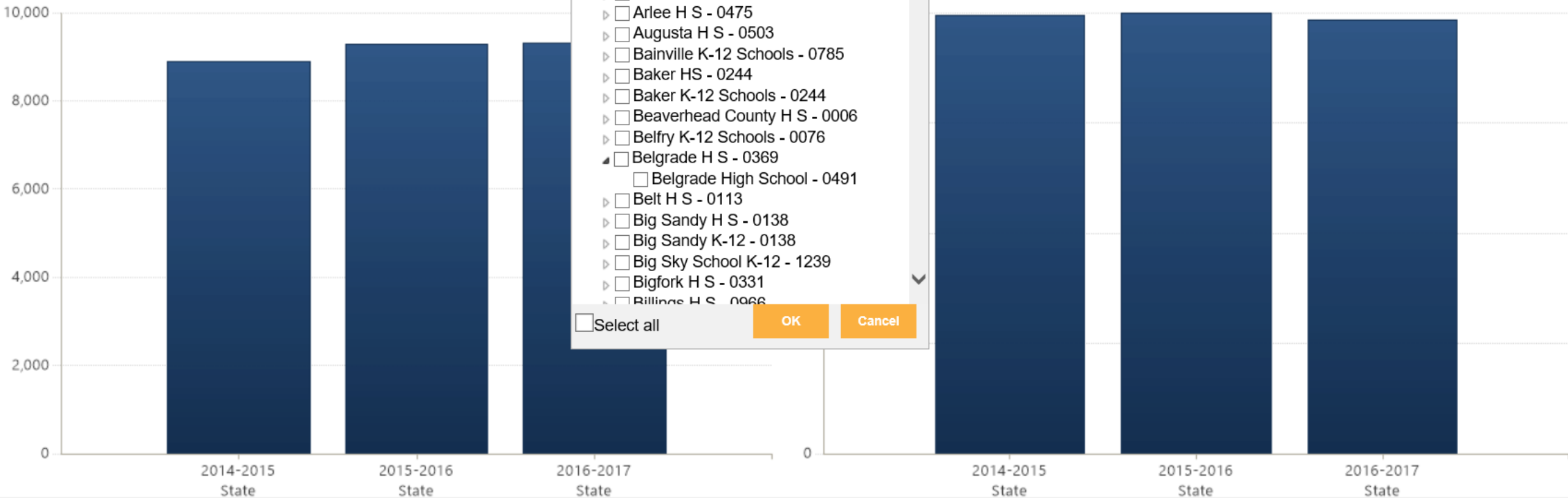
Criteria Selection for Menu Below is by LE (LEA) and School. The number for each are the LE Number and School Code.

Help Links:

- Dashboard Features and Printing
- View a Dashboard Demo
- Data Definitions & Explanations

School Year : 2016-2017 | Districts And Schools : State | Test Administration : Junior Test Administration

Number Of Students Taking The ACT



Search this filter

☒ State

- ☐ Absarokee H S - 0862
- ☐ Alberton K-12 Schools - 0577
- ☐ Anaconda H S - 0237
- ☐ Arlee H S - 0475
- ☐ Augusta H S - 0503
- ☐ Bainville K-12 Schools - 0785
- ☐ Baker HS - 0244
- ☐ Baker K-12 Schools - 0244
- ☐ Beaverhead County H S - 0006
- ☐ Belfry K-12 Schools - 0076
- ☒ Belgrade H S - 0369
 - ☐ Belgrade High School - 0491
- ☐ Belt H S - 0113
- ☐ Big Sandy H S - 0138
- ☐ Big Sandy K-12 - 0138
- ☐ Big Sky School K-12 - 1239
- ☐ Bigfork H S - 0331
- ☐ Billings H S - 0066

☐ Select all | OK | Cancel



ACT College Readiness Dashboard

ACT College Readiness

Help Links:

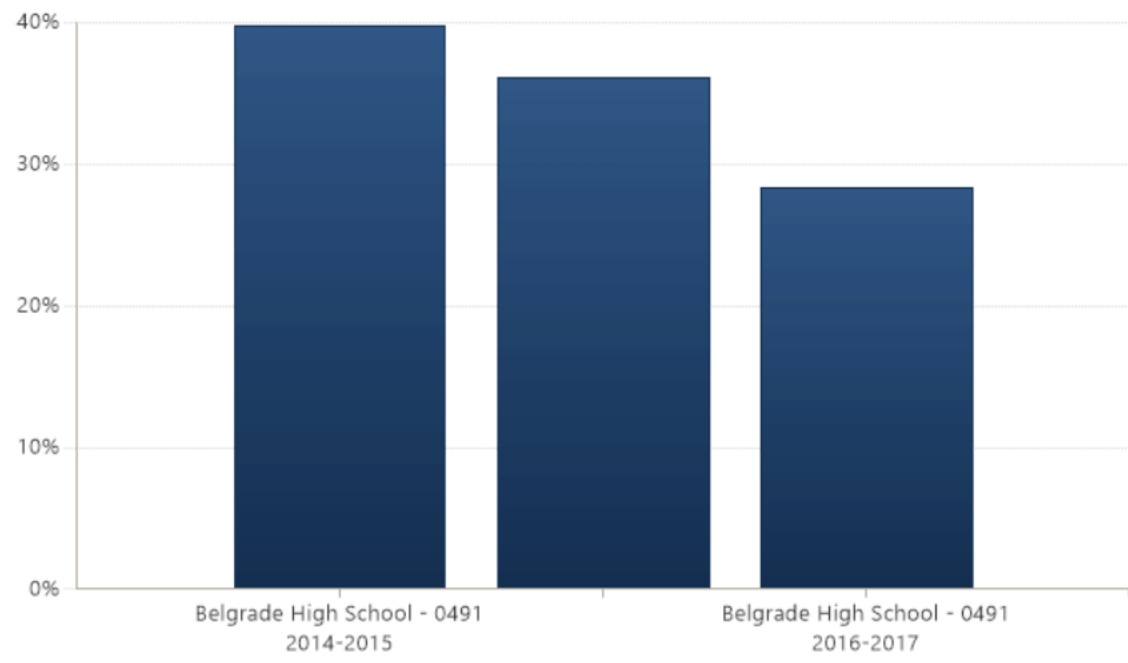
- Dashboard Features and Printing
- View a Dashboard Demo
- Data Definitions & Explanations

School Year : 2016-2017

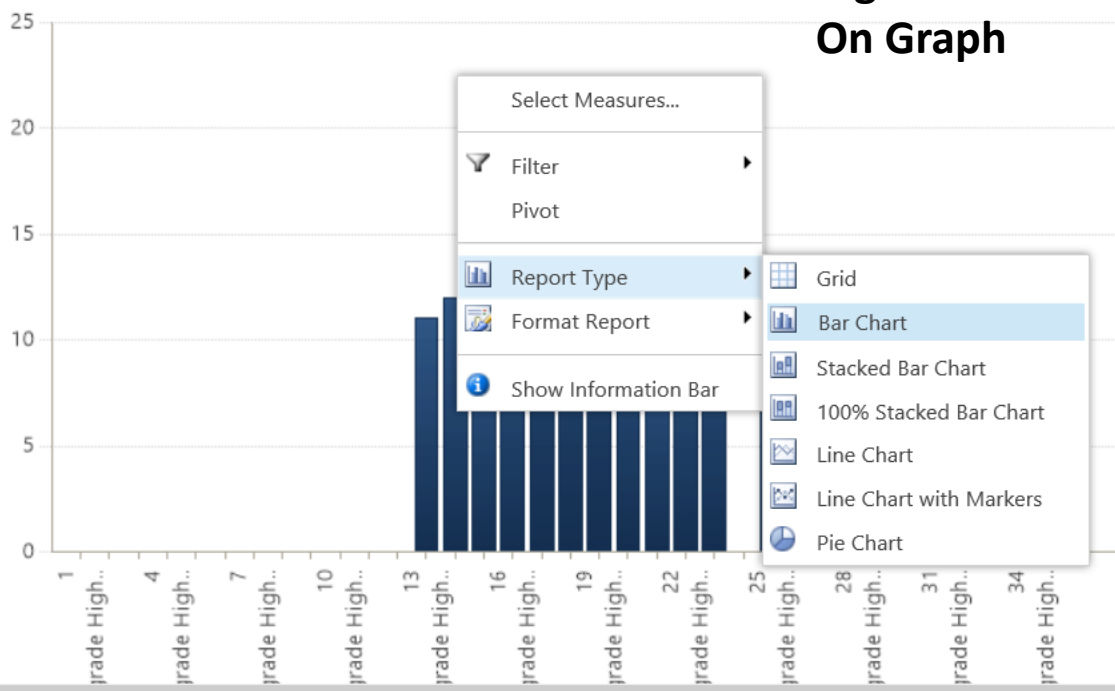
Districts And Schools : Belgrade High School - 0491

Test Administration : Junior Test Administration

Percent Of Students At Or Above College Readiness Benchmark Of 22 Using Composite Score



Distribution Of Composite ACT Scores



https://gems.opi.mt.gov/StudentAchievement/Dashboards/ACT%20College%20Readiness/ACT%20College%20Readiness.aspx

Search...

Home Star Settings Smile

ACT College Readiness > A... GEMS - Side-by-Side Compari...

Login to Secure Site | contact us | data & information request

Menu

ACT College Readiness Dashboard

ACT College Readiness

School Year : 2016-2017

Districts And Schools : Belgrade High School - 0491

Test Administration : Junior Test Administration

Percent Of Students At Or Above College Readiness Benchmark Of 22 Using Composite Score

School Year	Percent
Belgrade High School - 0491 2014-2015	40%
Belgrade High School - 0491 2015-2016	36%
Belgrade High School - 0491 2016-2017	28%

Distribution Of Composite ACT Scores

Measures	1	2	3
ACT Test Scores Coun...	Belgrade Hig...	Belgrade Hig...	Belgrade Hig...

Distribution Of English ACT Scores

Score Range	Count
18-19	1
19-20	25
20-21	21
21-22	15
22-23	18

Help Links:

- Dashboard Features and Printing
- View a Dashboard Demo
- Data Definitions & Explanations

Open in New Window

Reset View

Export to PowerPoint

Export to Excel

Right Click on Tiny Box



Student Characteristics Dashboard

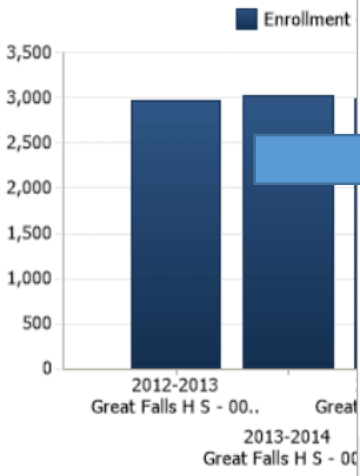
Help Links:

- Dashboard Features and Printing
- View a Dashboard Demo
- Data Definitions & Explanations



Counties, Districts, and Schools : Great Falls H S - 0099 ▾

Enrollment Count



Search this filter

☐ State

- ▶ ☐ Beaverhead - 01
- ▶ ☐ Big Horn - 02
- ▶ ☐ Blaine - 03
- ▶ ☐ Broadwater - 04
- ▶ ☐ Carbon - 05
- ▶ ☐ Carter - 06

☐ Cascade - 07

- ▶ ☐ Belt Elem - 0112
- ▶ ☐ Belt H S - 0113
- ▶ ☐ Cascade Elem - 0101
- ▶ ☐ Cascade H S - 0102
- ▶ ☐ Centerville Elem - 0104
- ▶ ☐ Centerville H S - 0105
- ▶ ☐ Deep Creek Elem - 1195
- ▶ ☐ Great Falls Elem - 0098
- ▶ ☒ Great Falls H S - 0099
- ▶ ☐ Mont Sch for Deaf Blind - 9258
- ▶ ☐ Simms H S - 0118

☐ Select all

OK Cancel

Enrollments by Race-Ethnicity

	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
	Enrollment Count - Masked	Enrollment Count - Masked	Enrollment Count - Masked	Enrollment Count - Masked	Enrollment Count - Masked
characteristics Federal Race- Ethnicity	▶ Great Falls H S - 0099	▶ Great Falls H S - 0099	▶ Great Falls H S - 0099	▶ Great Falls H S - 0099	▶ Great Falls H S - 0099
	2,975	3,029	2,982	2,963	2,944
n Indian or Alaskan Native	341	353	332	340	328
	29	33	32	38	43
African American	72	74	87	68	66
	83	107	97	100	121
cial	10	41	53	69	71
lawaiian or Other Pacific Islander	16	18	19	18	15
	2,424	2,403	2,362	2,330	2,300



search our site



- DATA
- FIND SCHOOLS
- HOW TO USE GEMS
- CONTACT US

GEMS > School Finance > Year To Year Budget Comparison

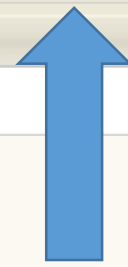
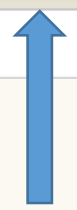
Parameter Based Report Help

Menu

Year To Year Budget Comparison

Beginning Fiscal Year: FY2016 Ending Fiscal Year: FY2017
State/Legal Entity: State View Report

1 of 1 Find | Next



Guided Lesson

- This presentation doesn't address what's in GEMS. It shows you how to use it well. You can discover what GEMS offers. For example, has anyone thought of a research question?

(If not, that's ok). Let's look at graduation data from two views (on a report and dashboard).

Using GEMS Well to Understand the Data Available to You

Contact Information

Robin Clausen
Research Liaison
Montana Office of Public Instruction
robin.clausen@mt.gov
406-444-3793

